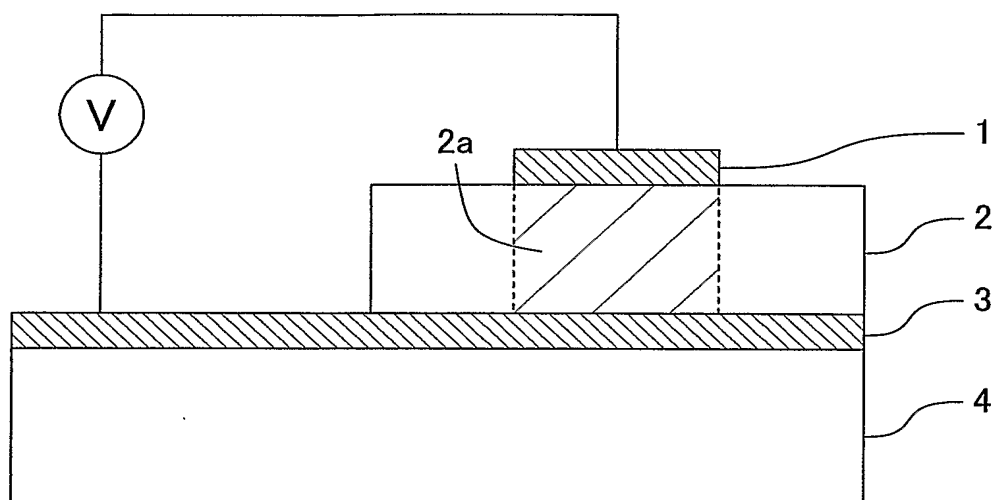


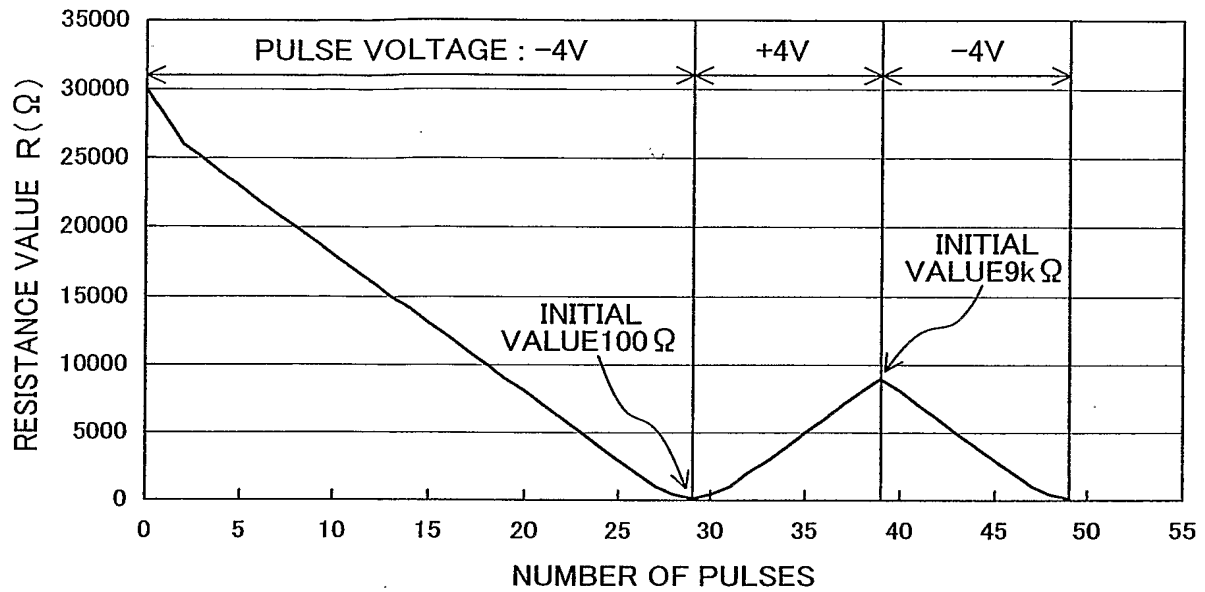
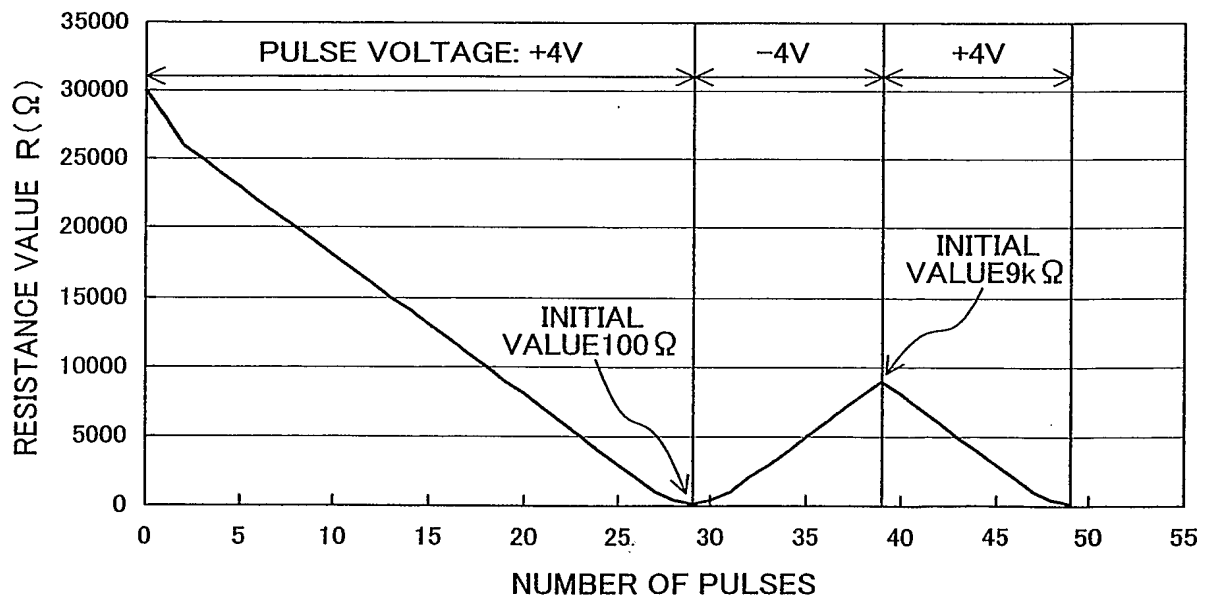
1/30

FIG. 1



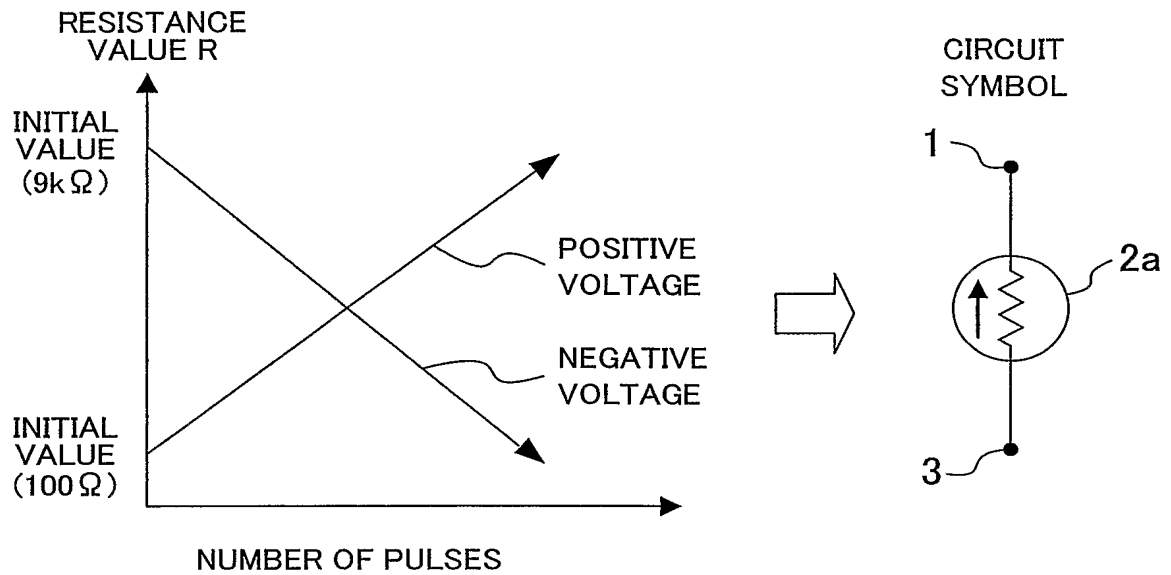
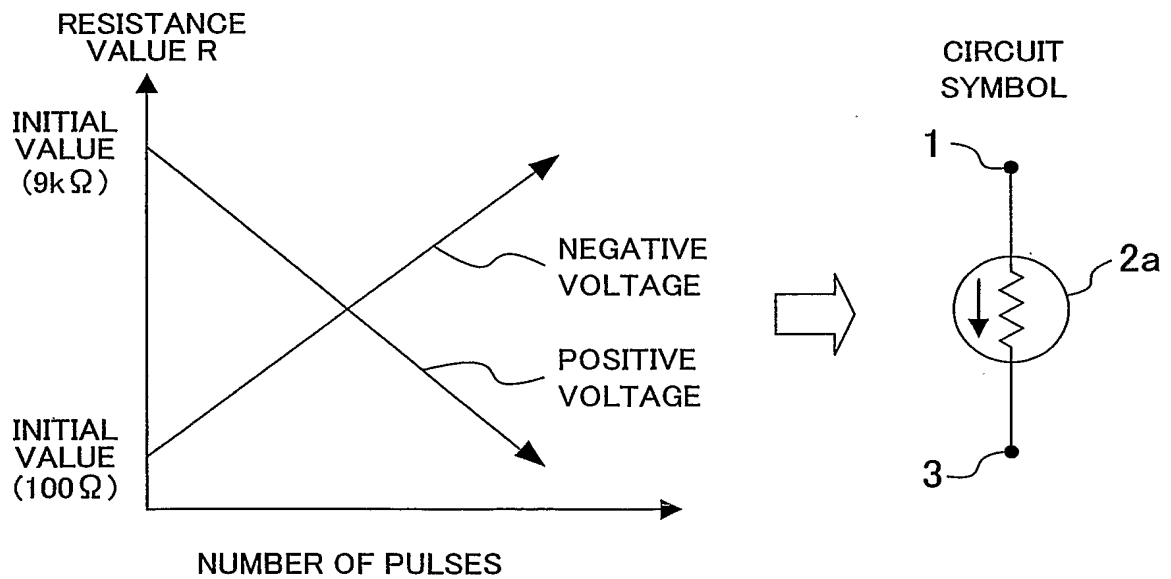
2/30

FIG. 2

(a) VARIABLE RESISTOR α (b) VARIABLE RESISTOR β 

3/30

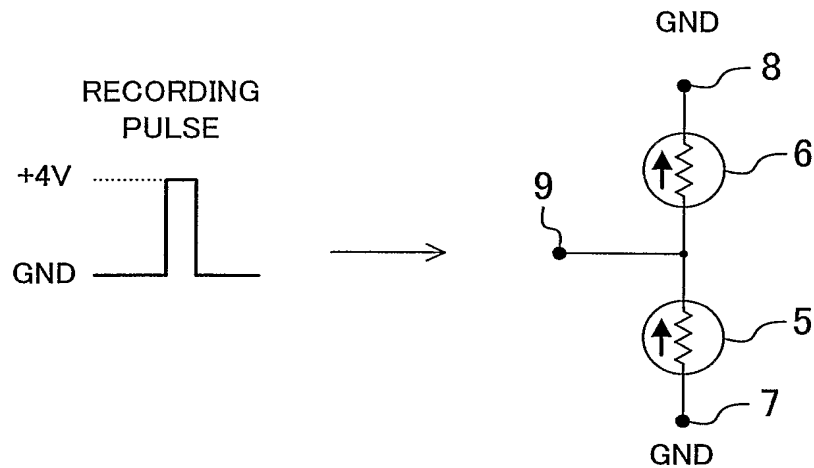
FIG. 3

(a) VARIABLE RESISTOR α (b) VARIABLE RESISTOR β 

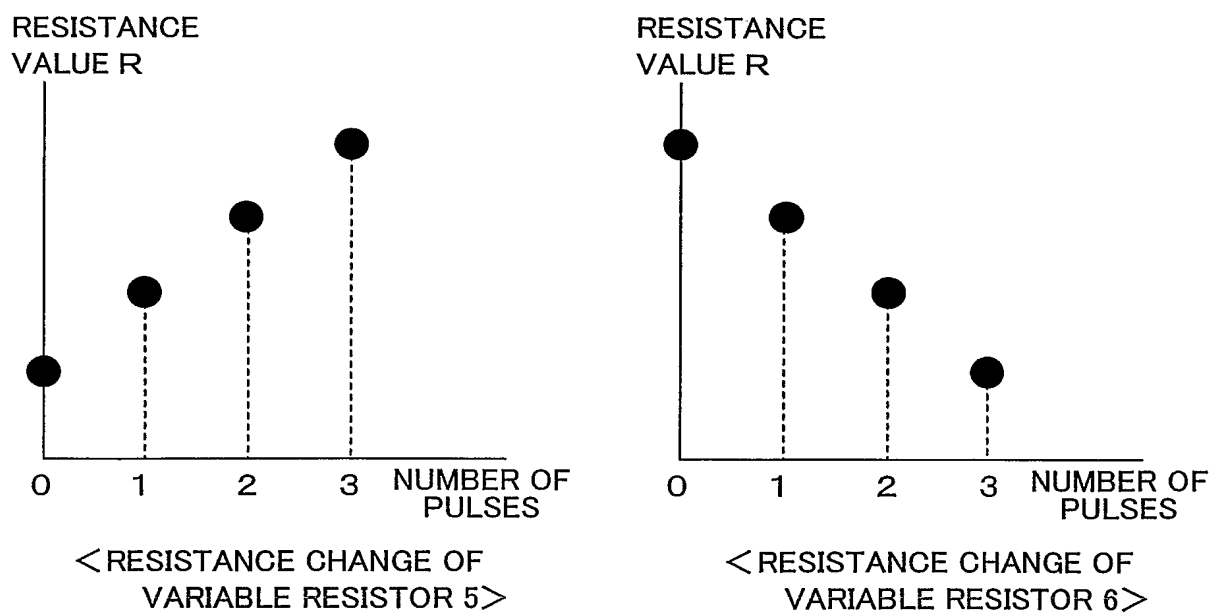
4/30

FIG. 4

(a) RECORDING



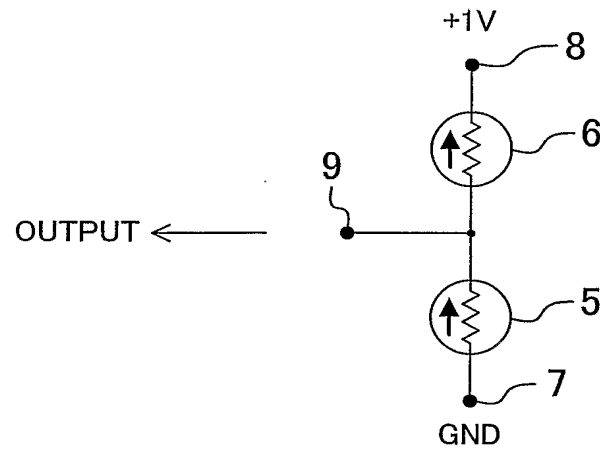
(b) RESISTANCE CHANGE OF VARIABLE RESISTOR



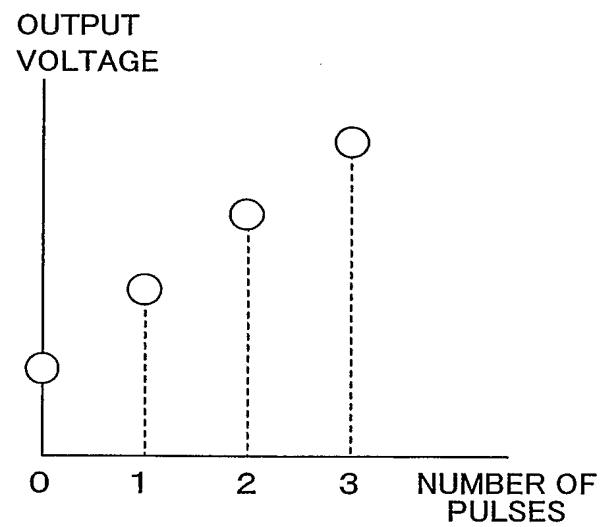
5/30

FIG. 5

(a) REPRODUCTION



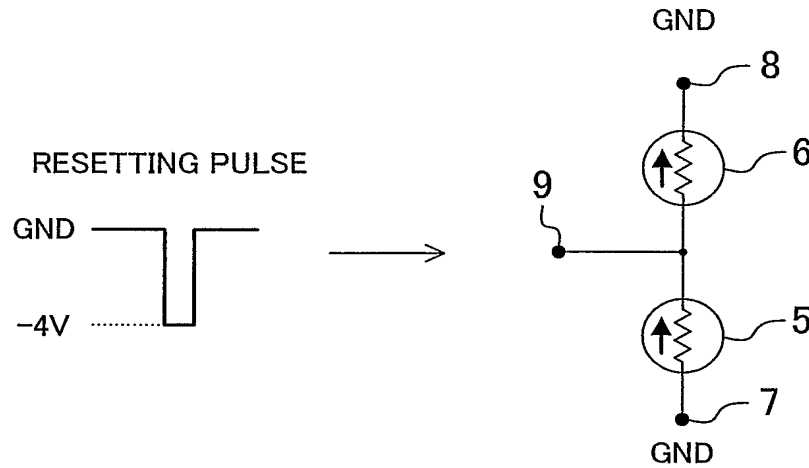
(b) REPRODUCTION OUTPUT VOLTAGE



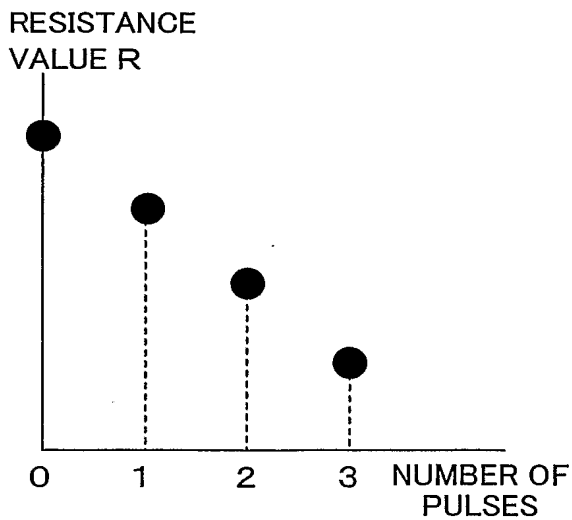
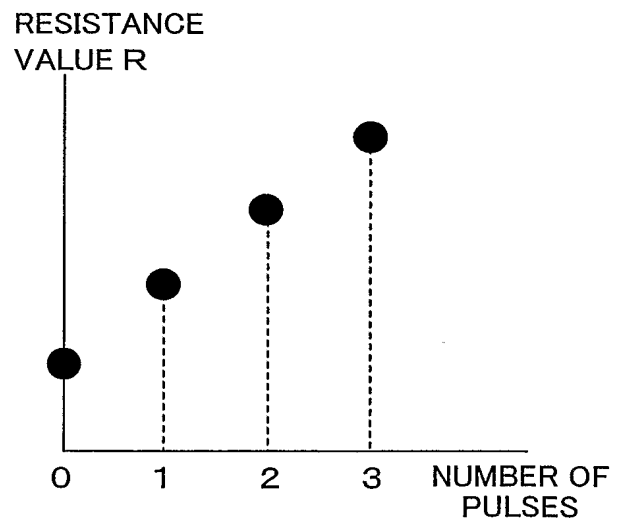
6/30

FIG. 6

(a) RESETTING



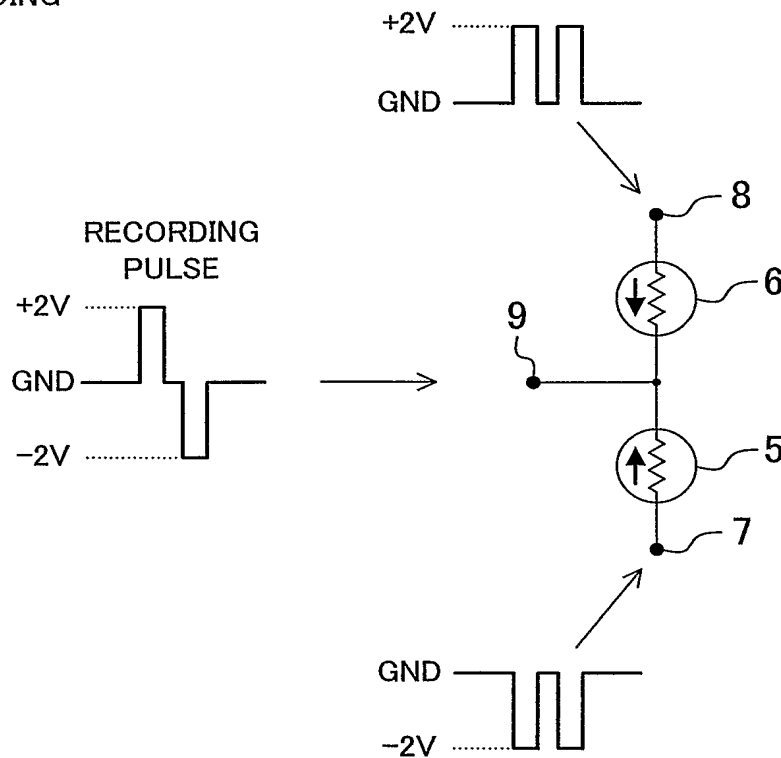
(b) RESISTANCE CHANGE OF VARIABLE RESISTOR

< RESISTANCE CHANGE OF
VARIABLE RESISTOR 5 >< RESISTANCE CHANGE OF
VARIABLE RESISTOR 6 >

7/30

FIG. 7

(a) RECORDING



(b) RESISTANCE CHANGE OF VARIABLE RESISTOR

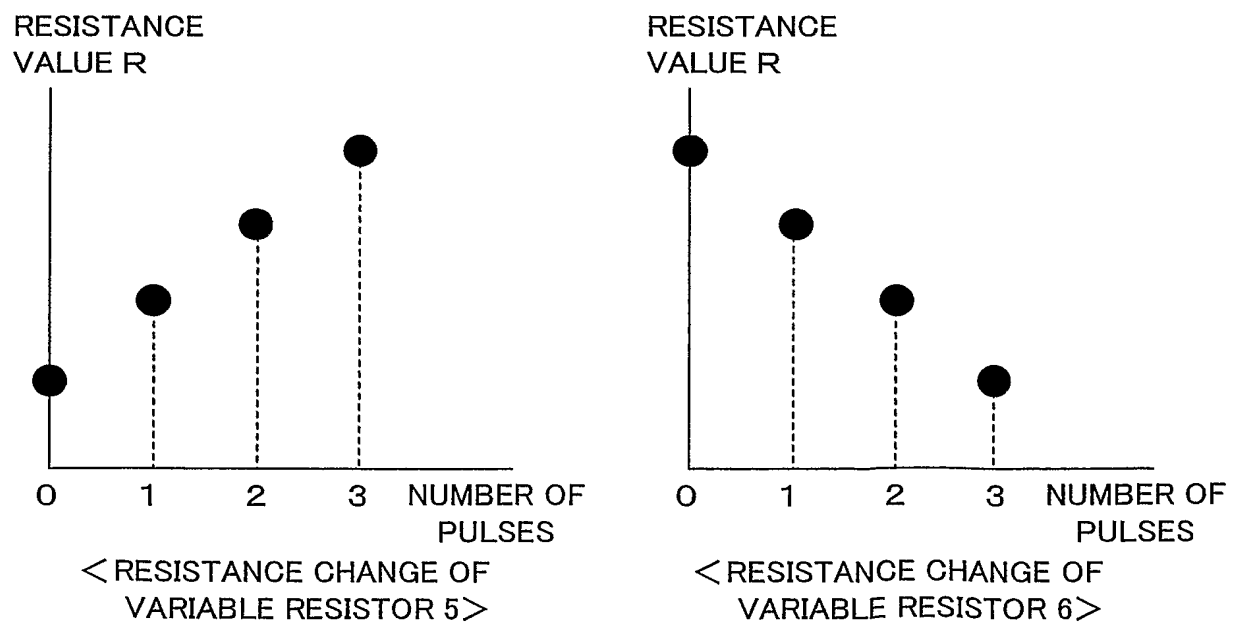


FIG. 8

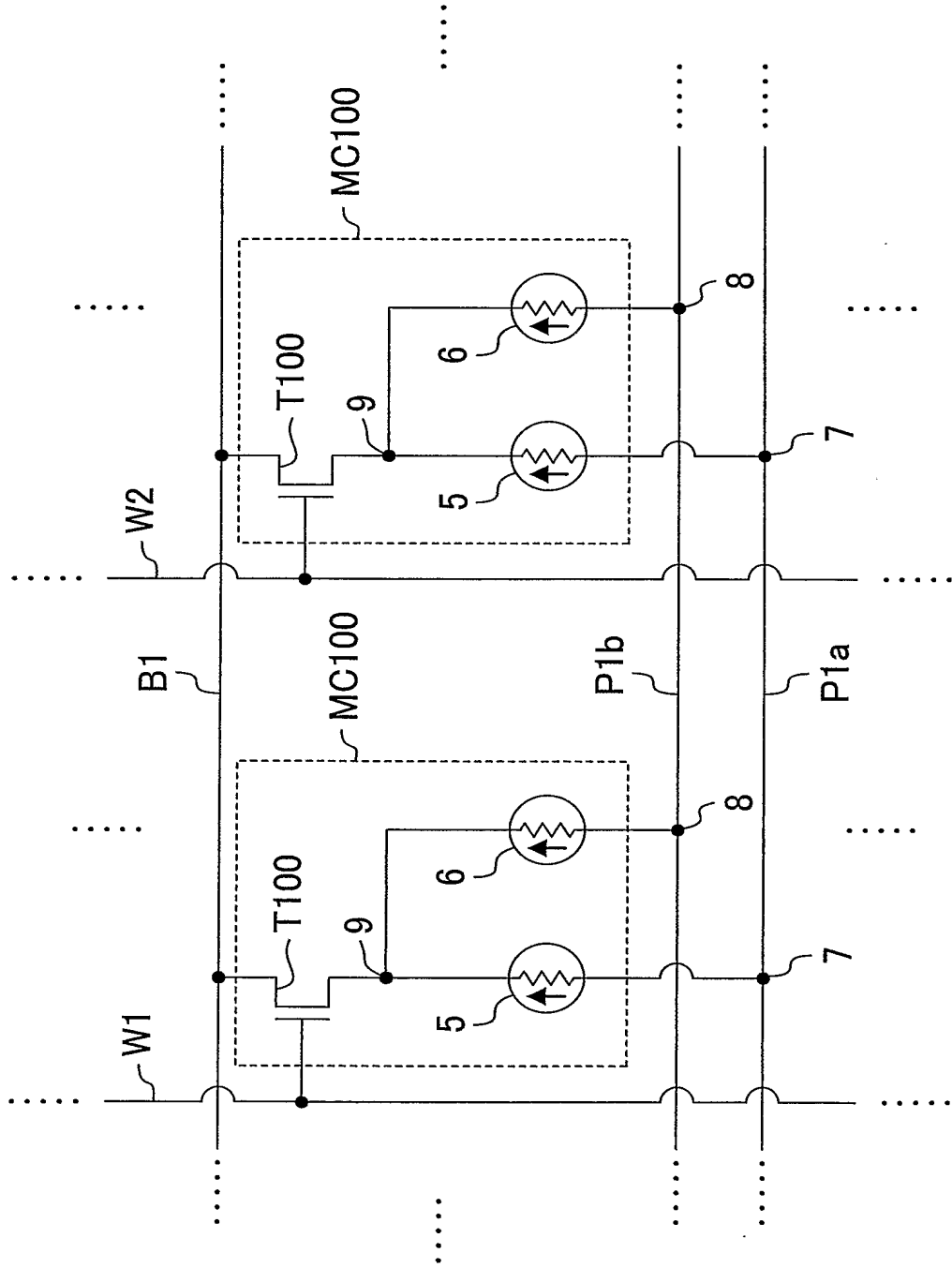


FIG. 9

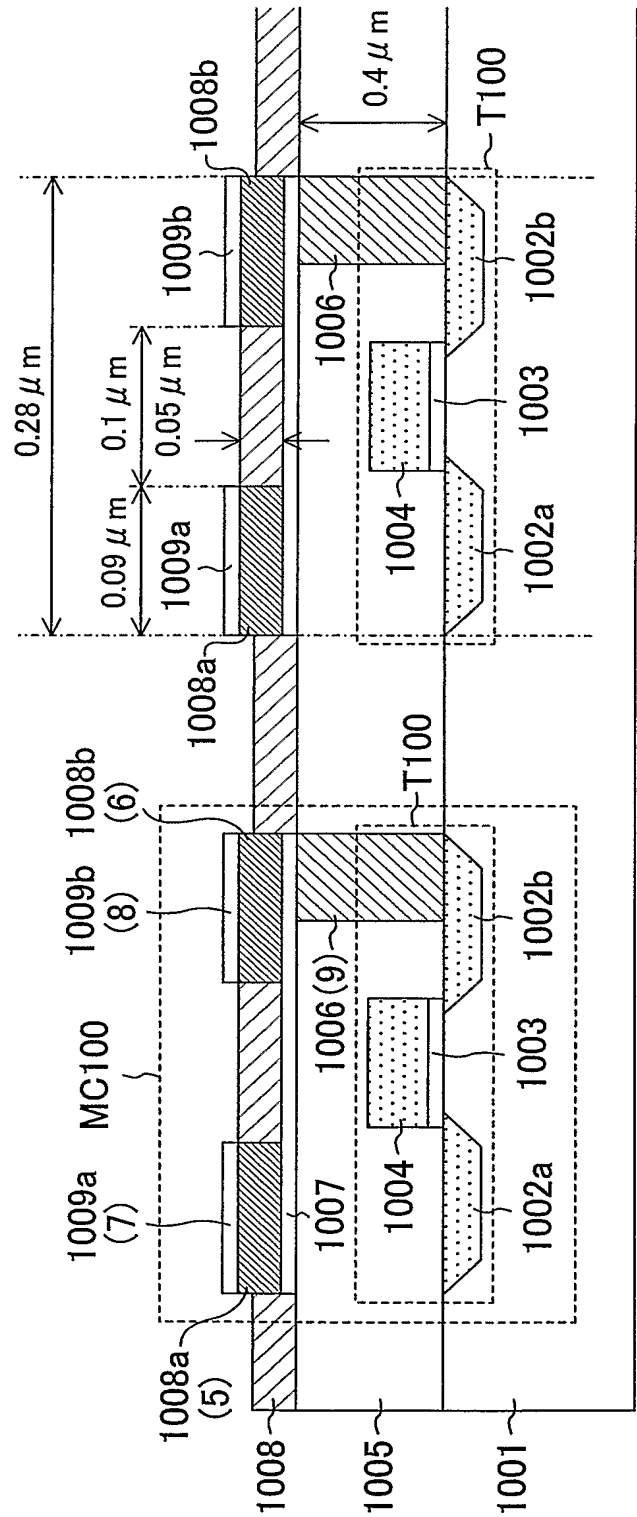
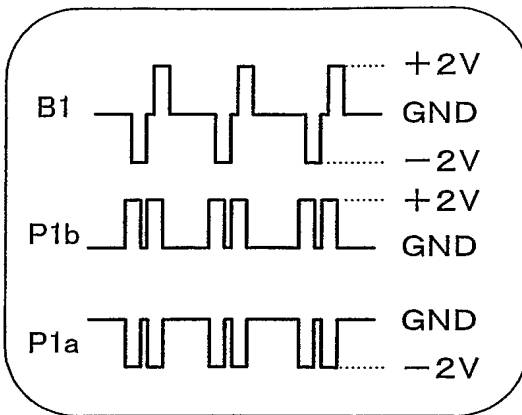


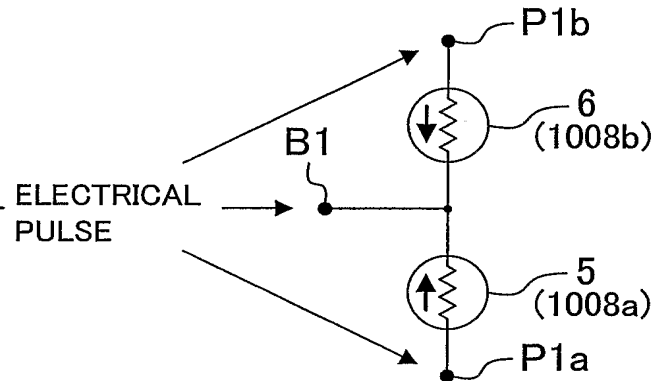
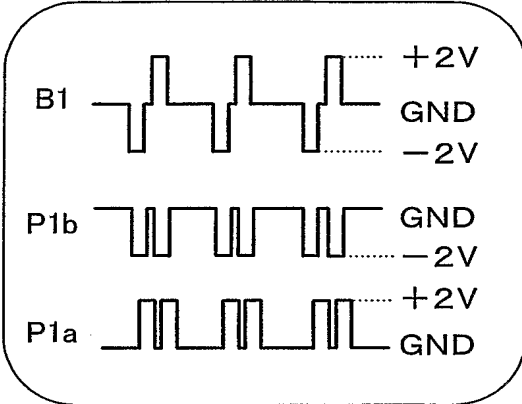
FIG. 10

10/30

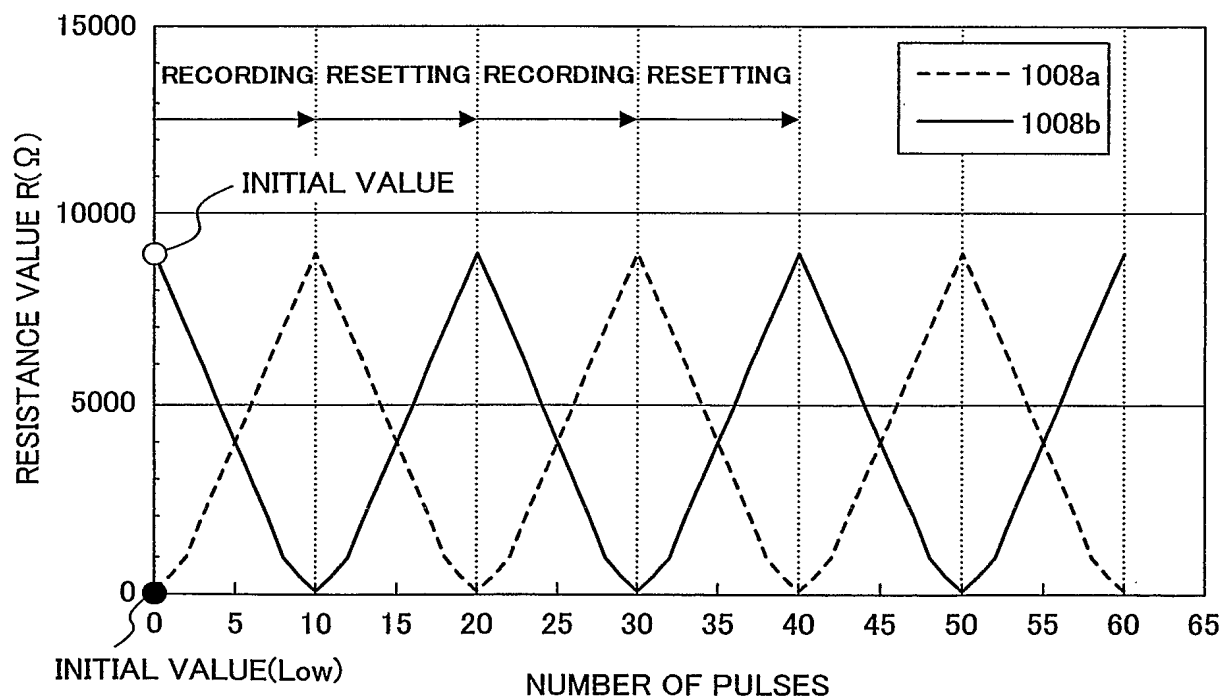
(a) RECORDING



RESETTING



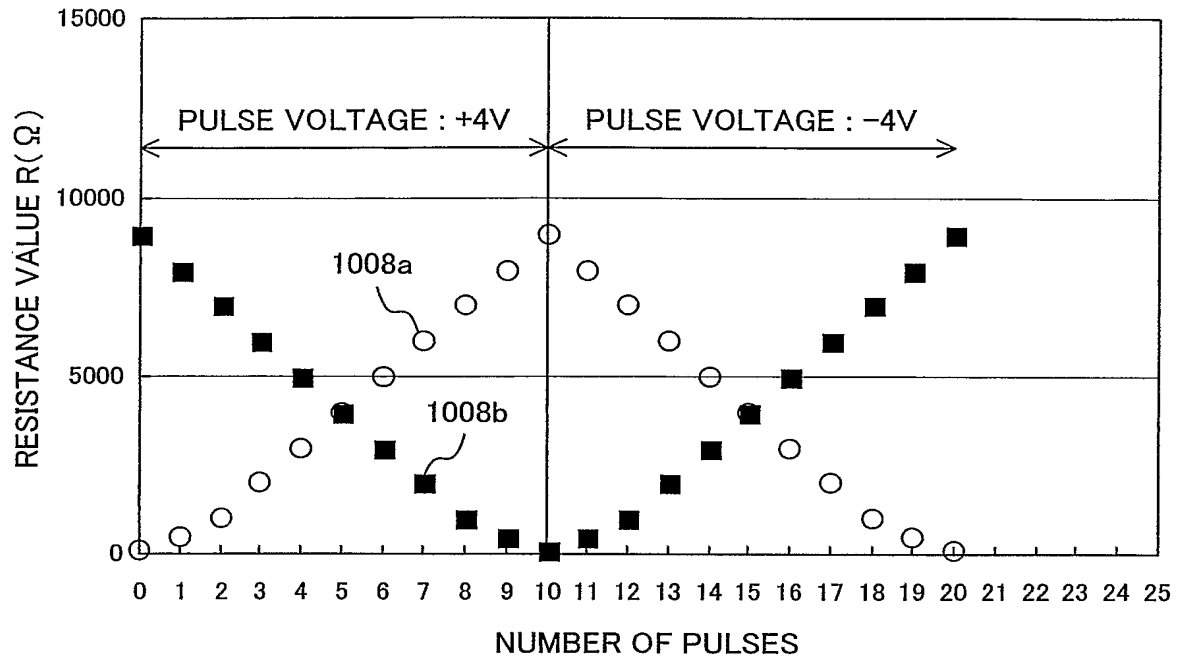
(b)



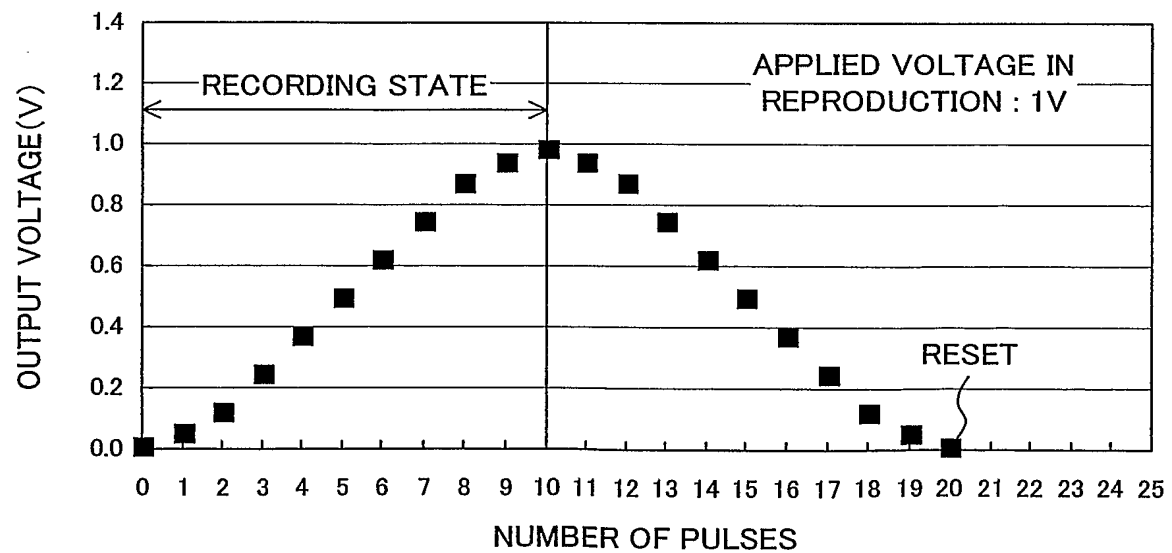
11/30

FIG. 11

(a) RESISTANCE CHANGE WITH NUMBER OF PULSES



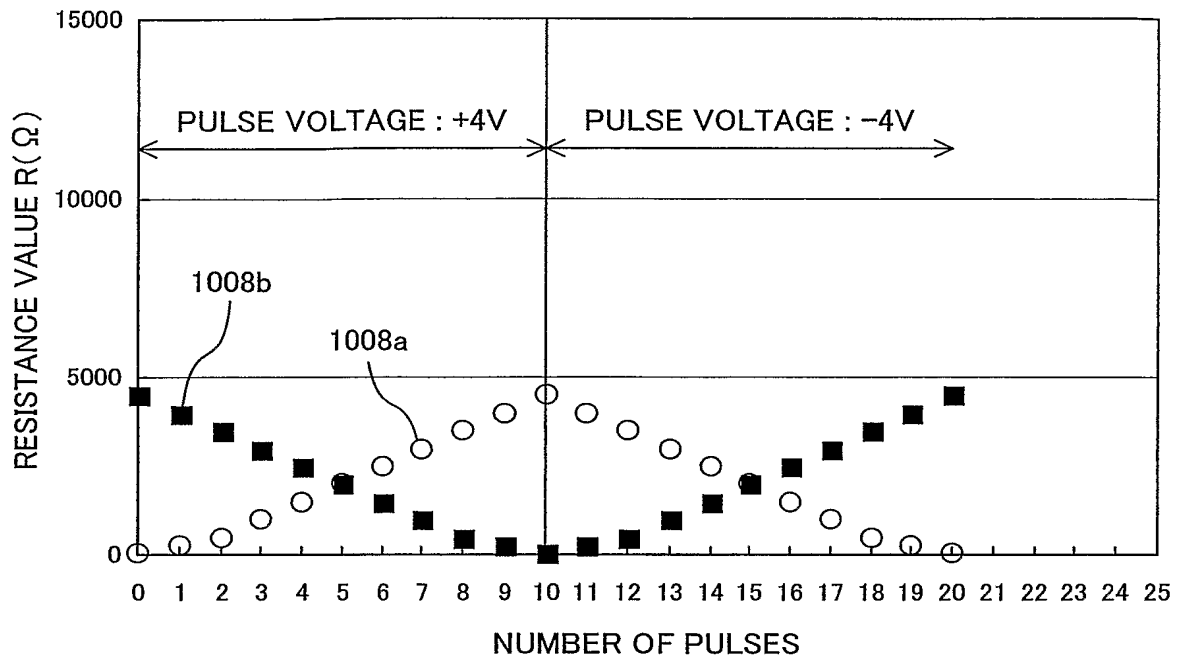
(b) OUTPUT VOLTAGE IN READOUT OF RECORDING STATE



12/30

FIG. 12

(a) RESISTANCE CHANGE WITH NUMBER OF PULSES



(b) OUTPUT VOLTAGE IN READOUT OF RECORDING STATE

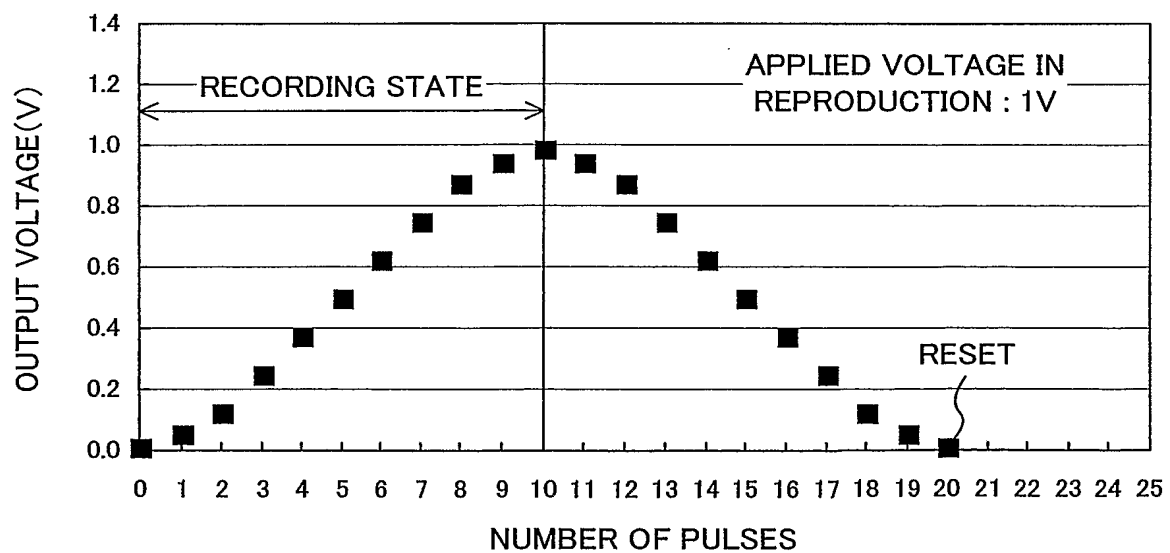


FIG. 13

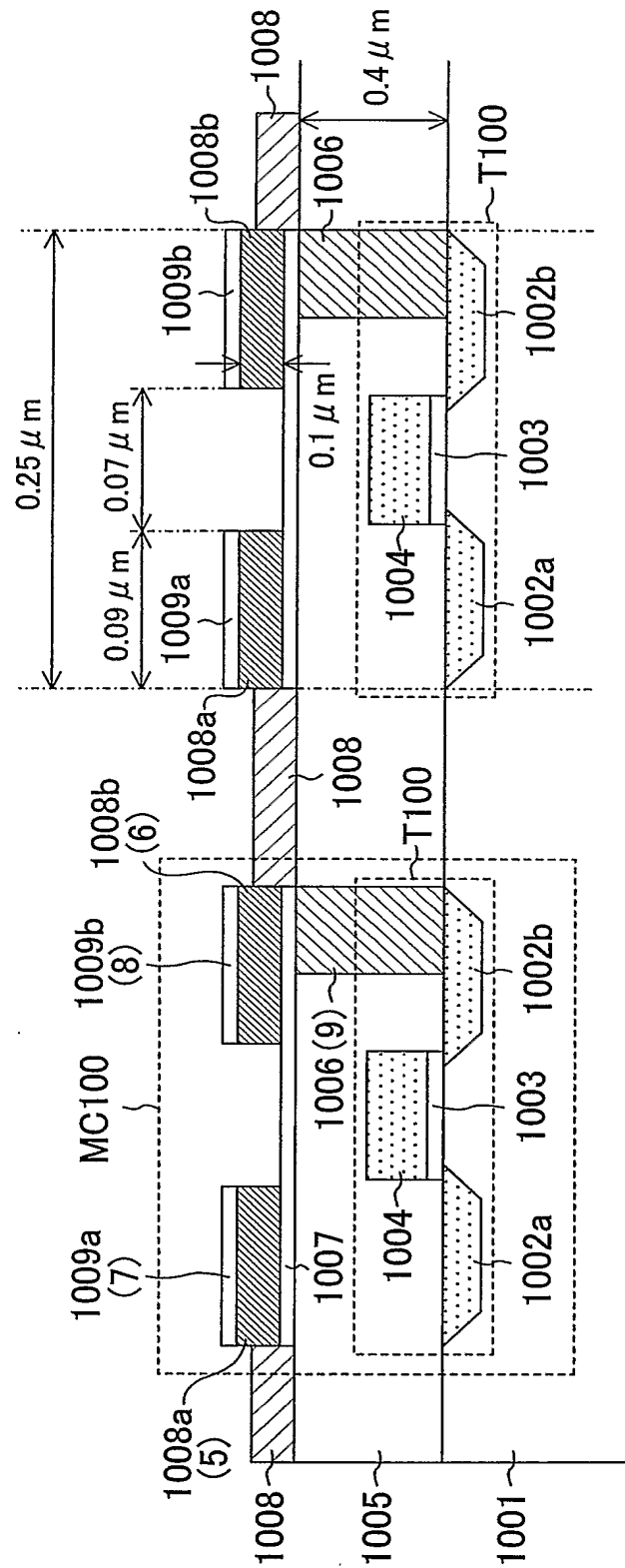
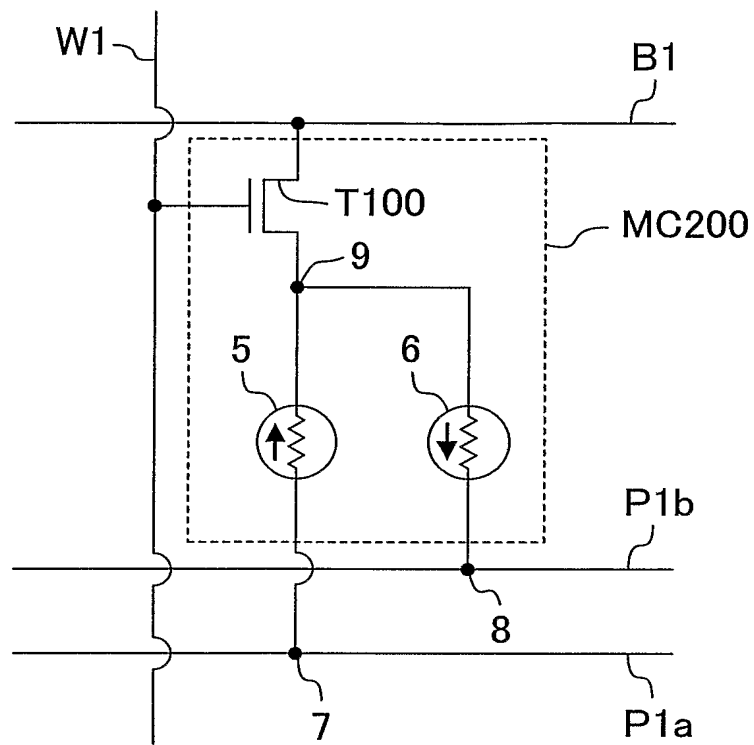


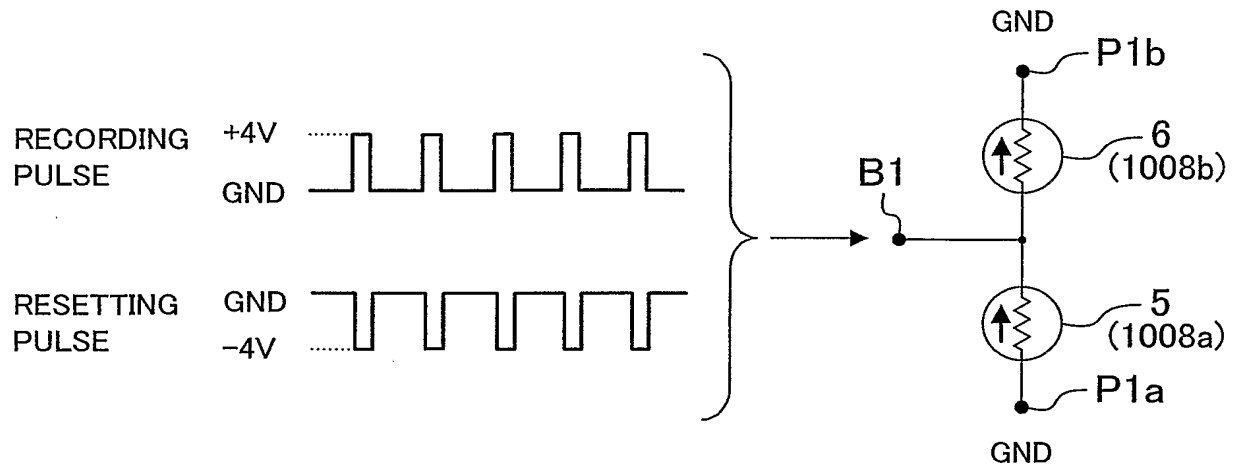
FIG. 14



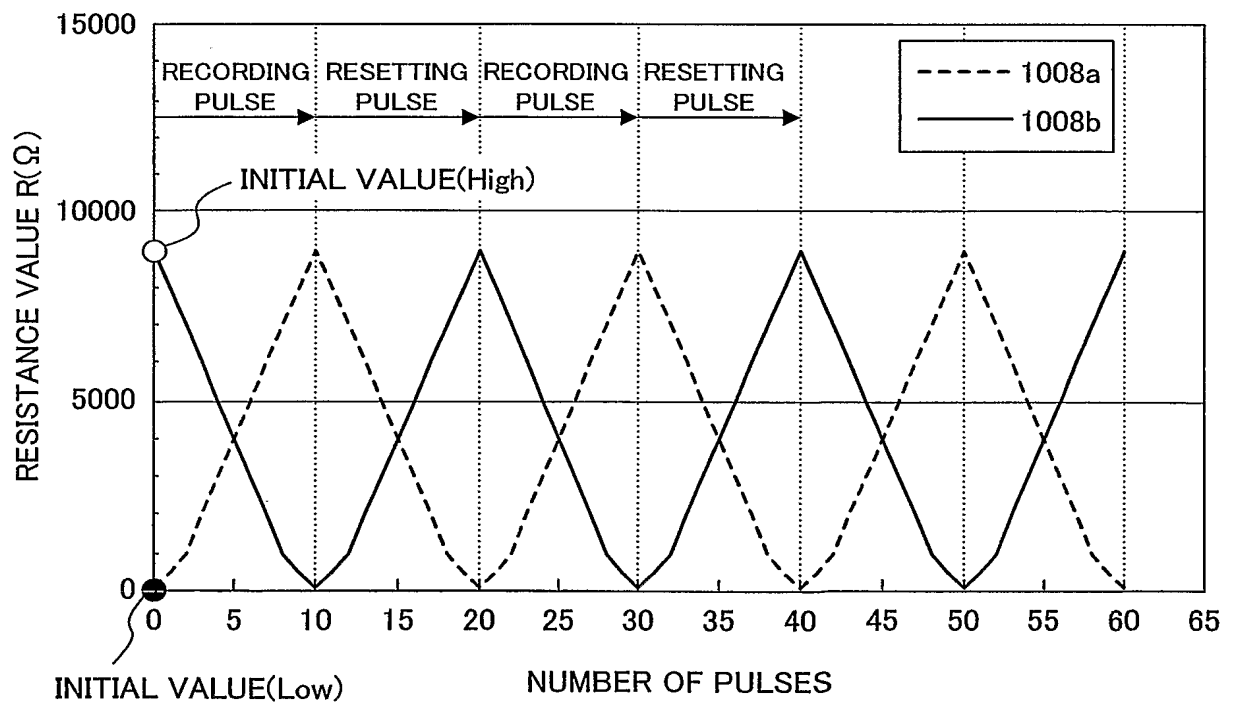
15/30

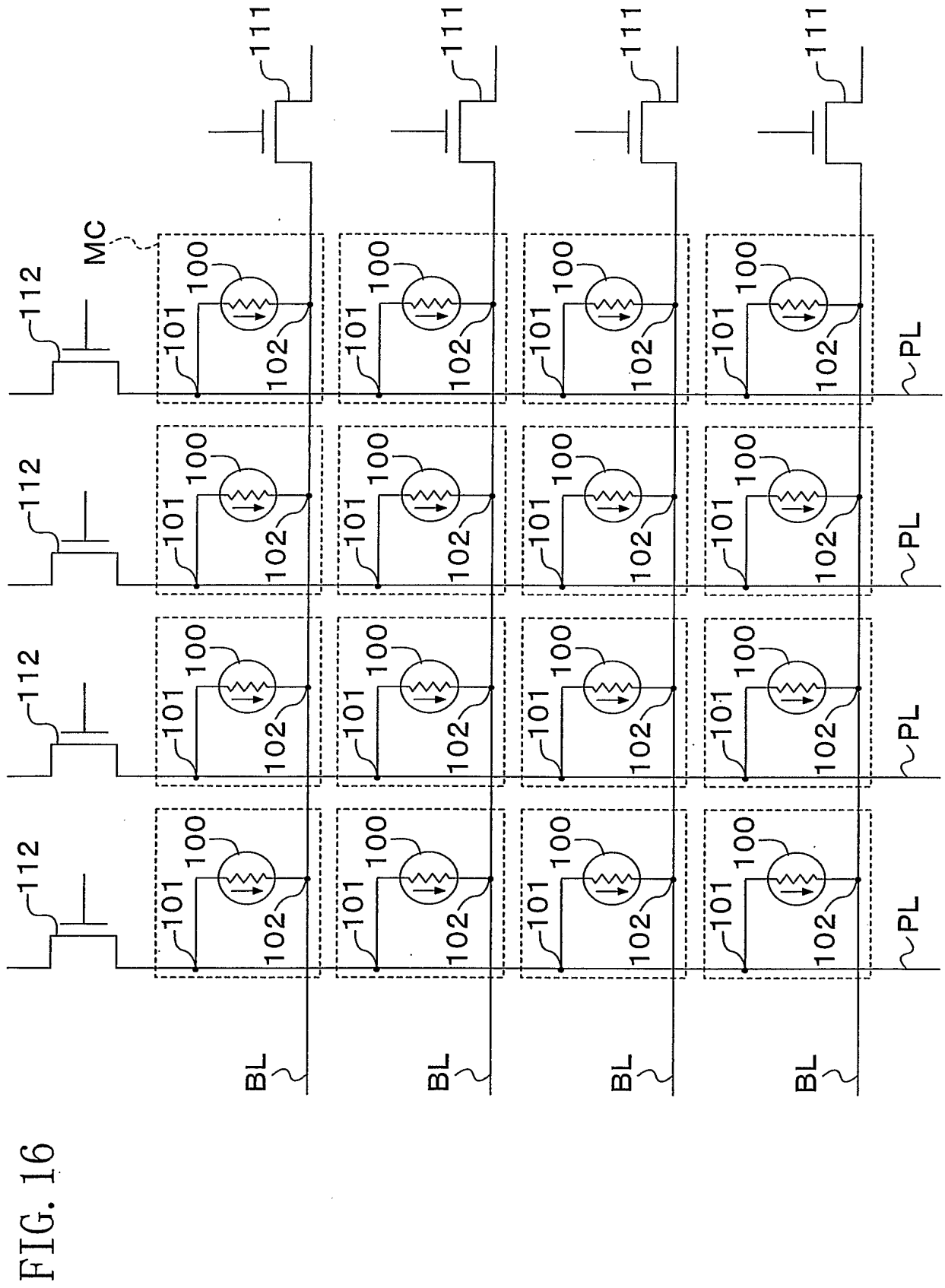
FIG. 15

(a)



(b)





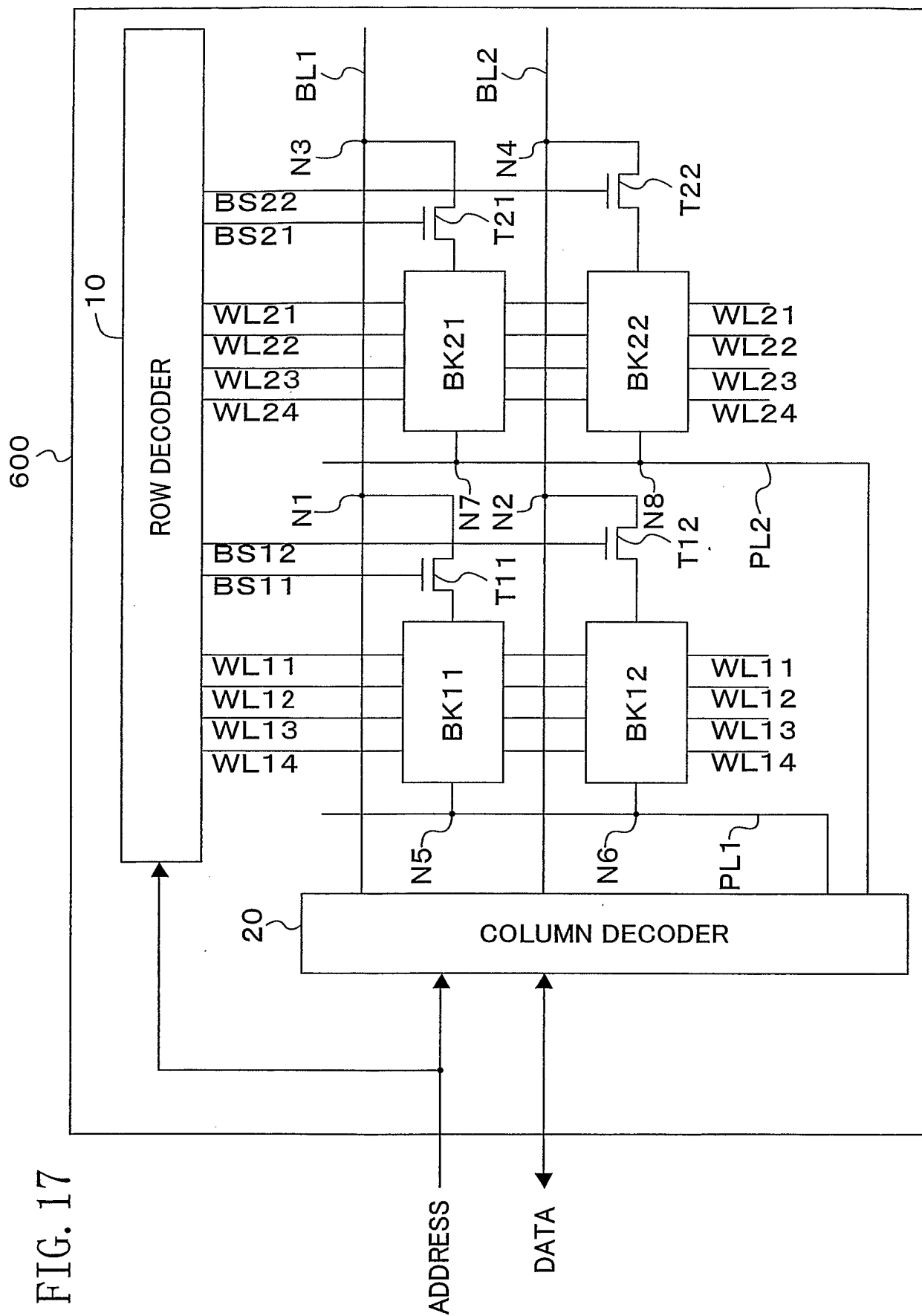


FIG. 18

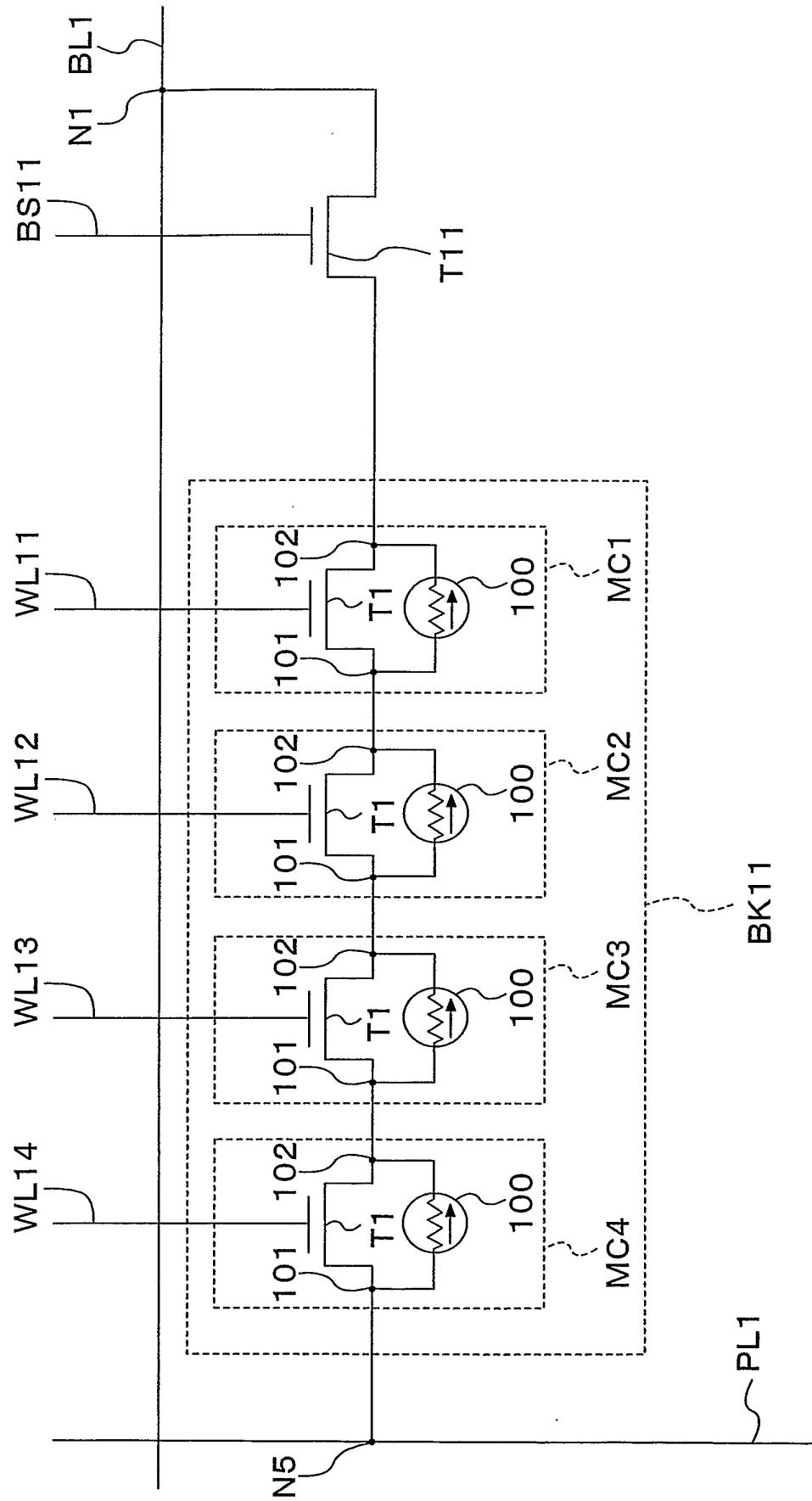
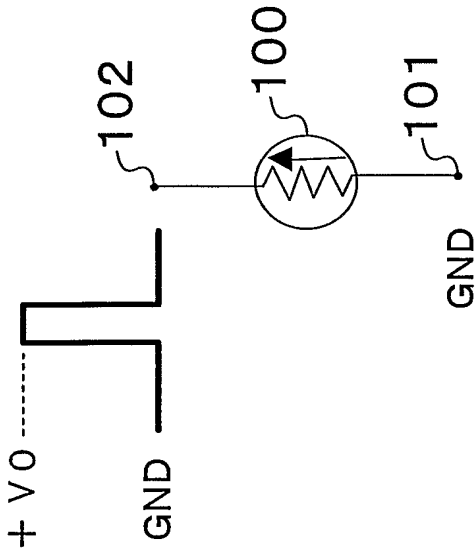
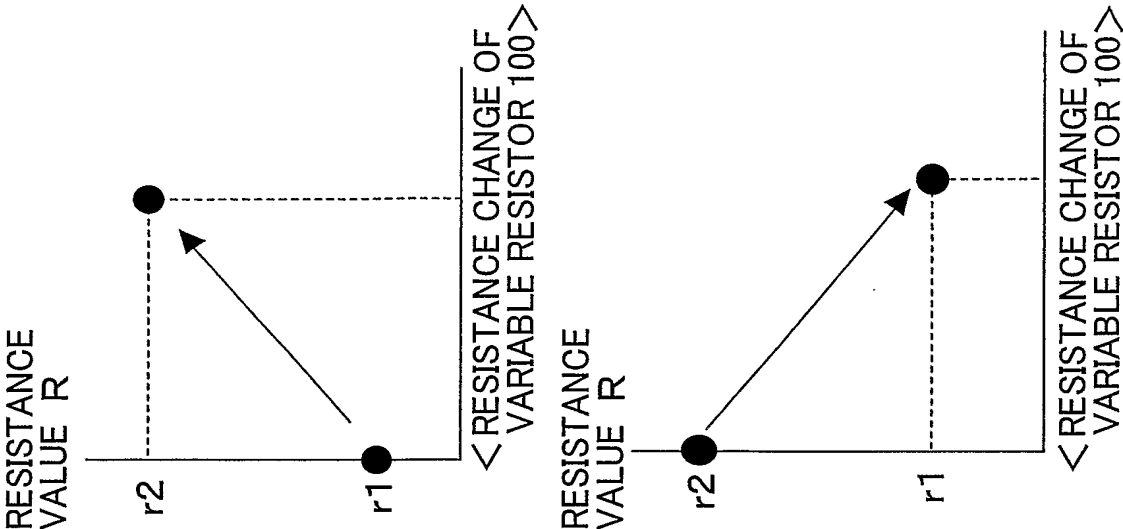
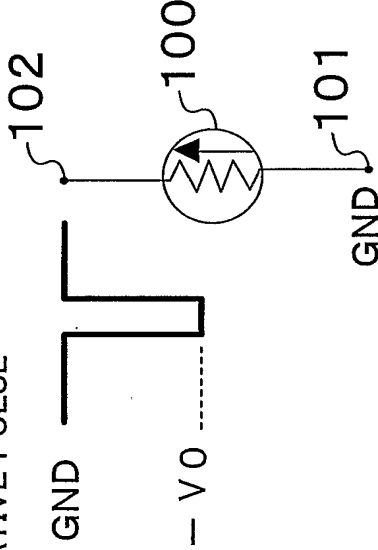


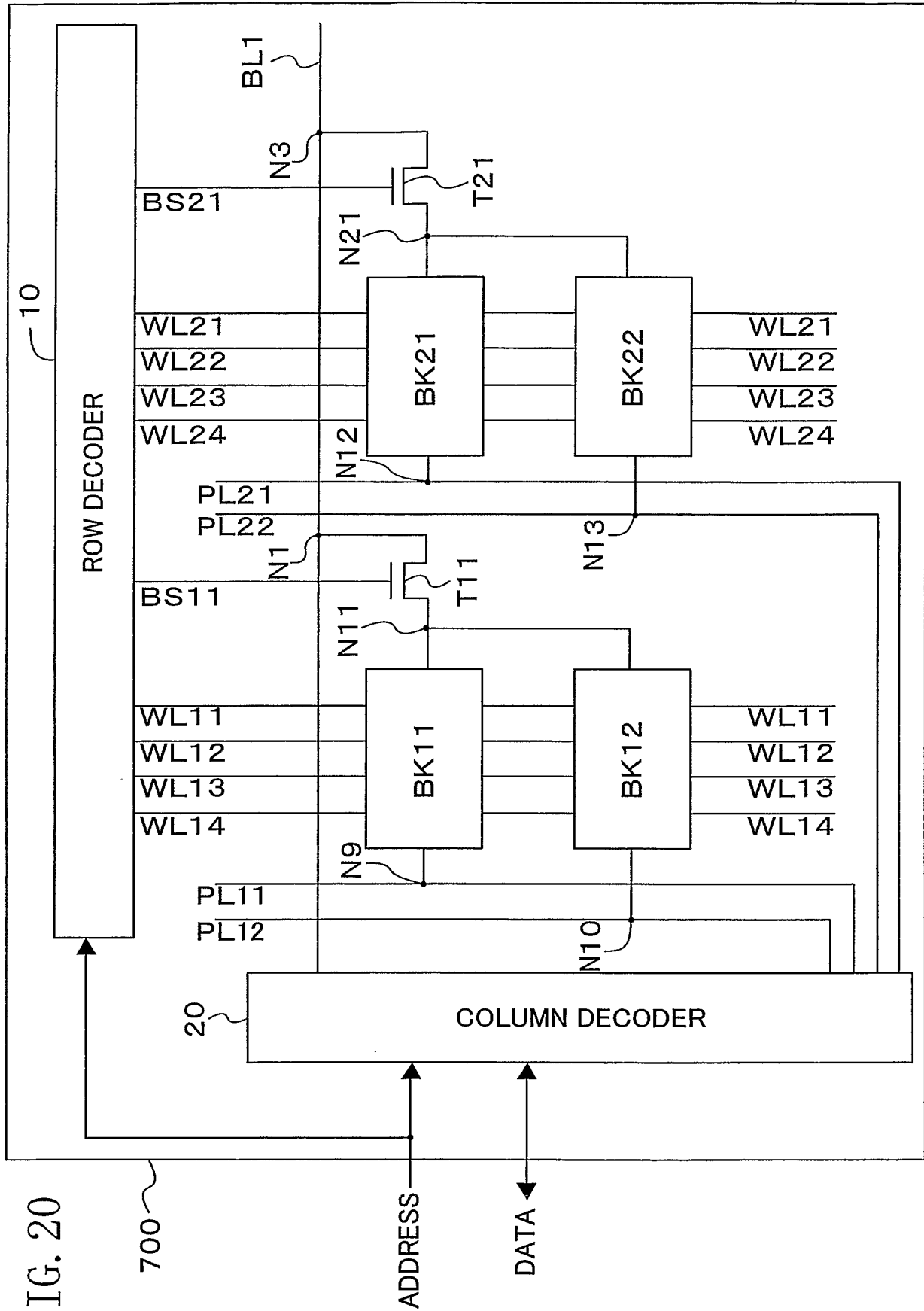
FIG. 19

(a) POSITIVE PULSE



(b) NEGATIVE PULSE





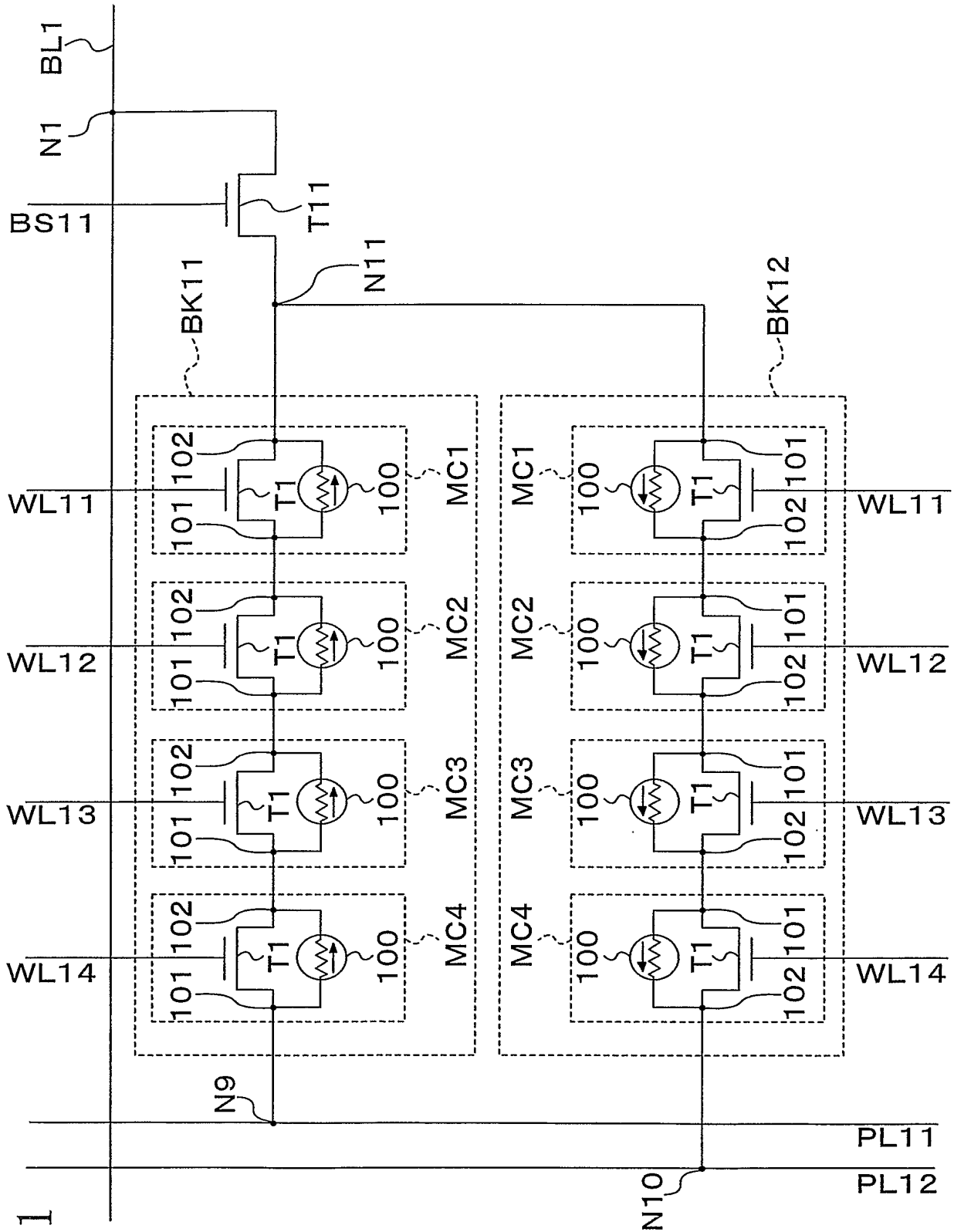
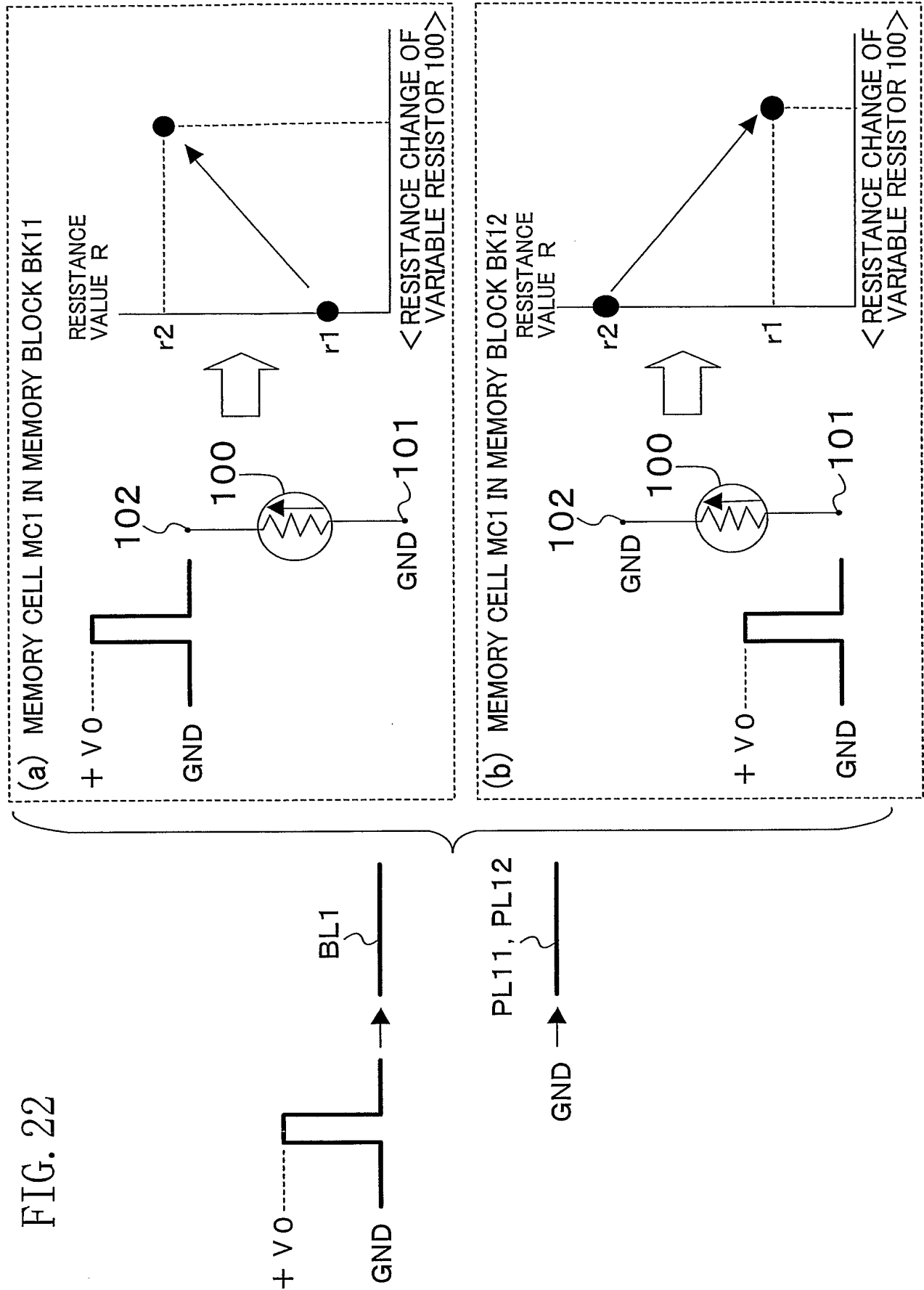


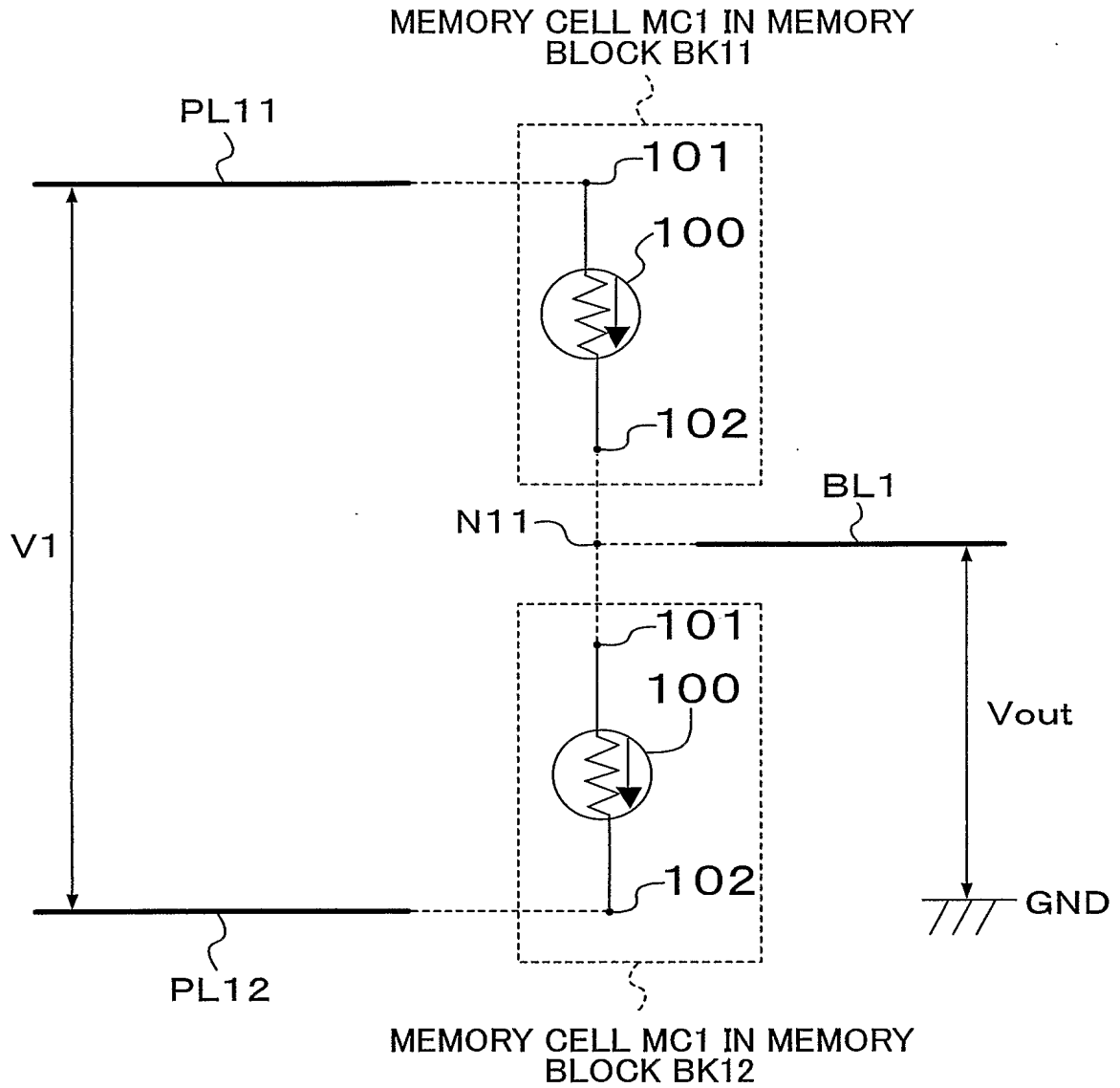
FIG. 21

FIG. 22



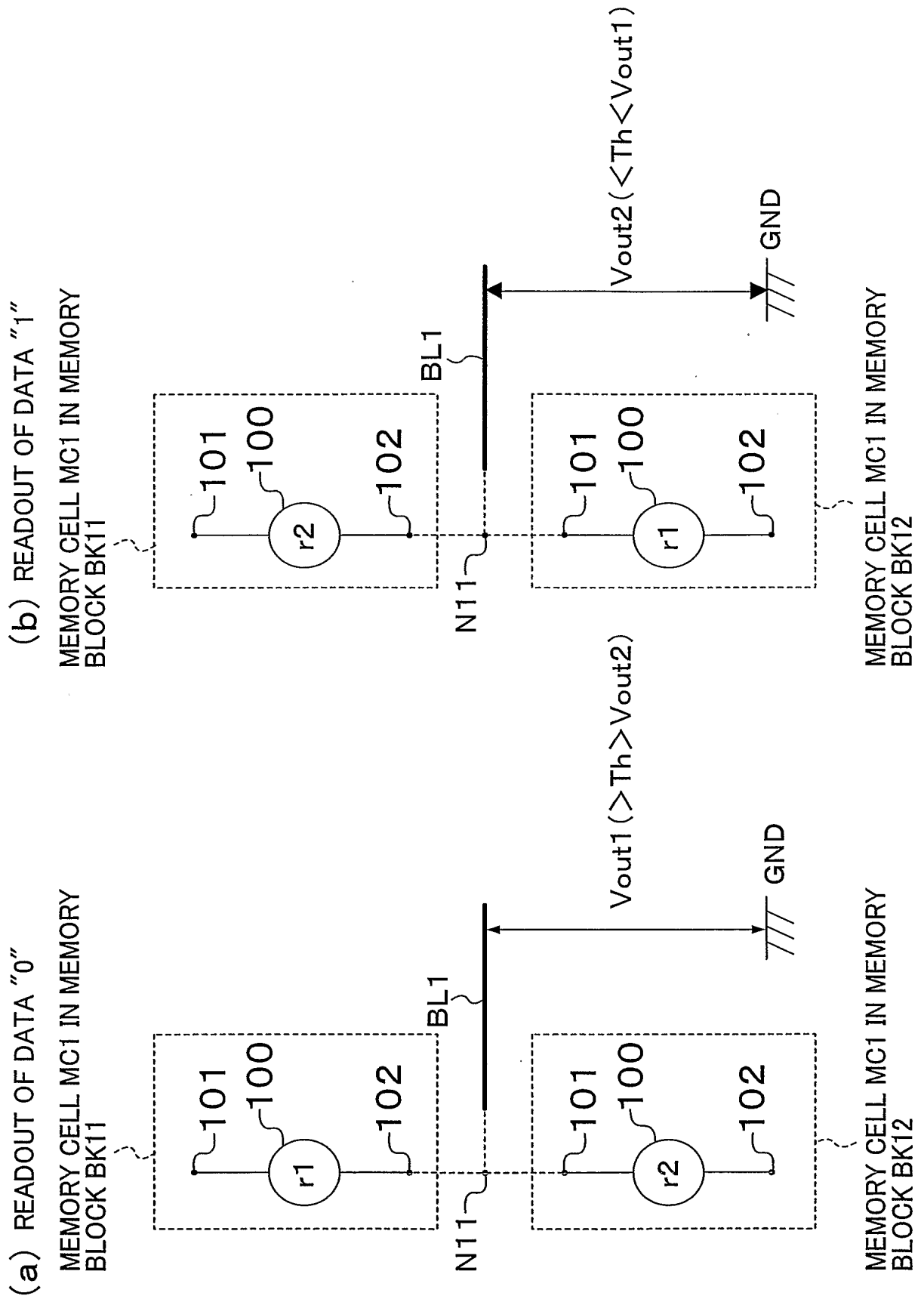
23/30

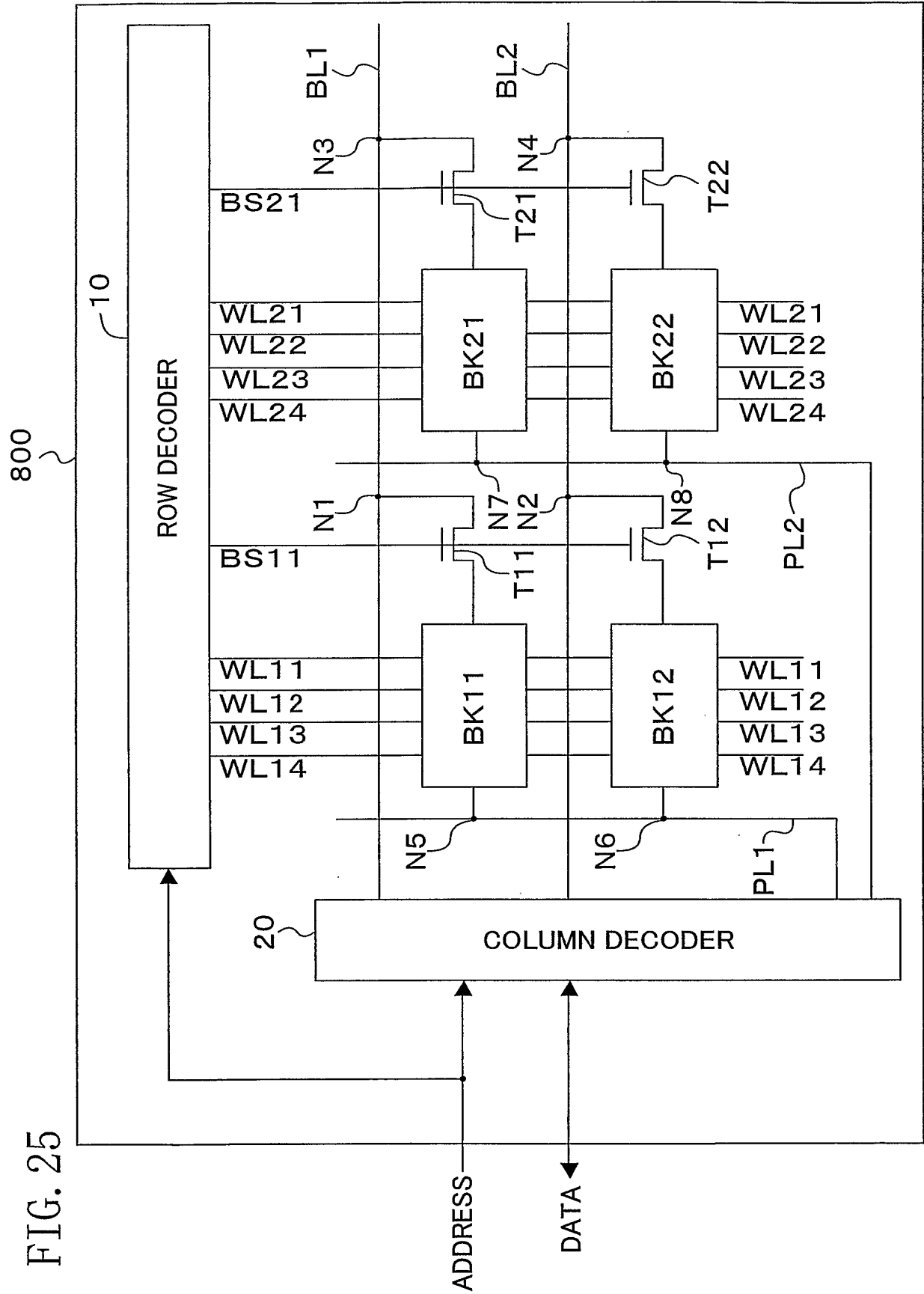
FIG. 23



24/30

FIG. 24





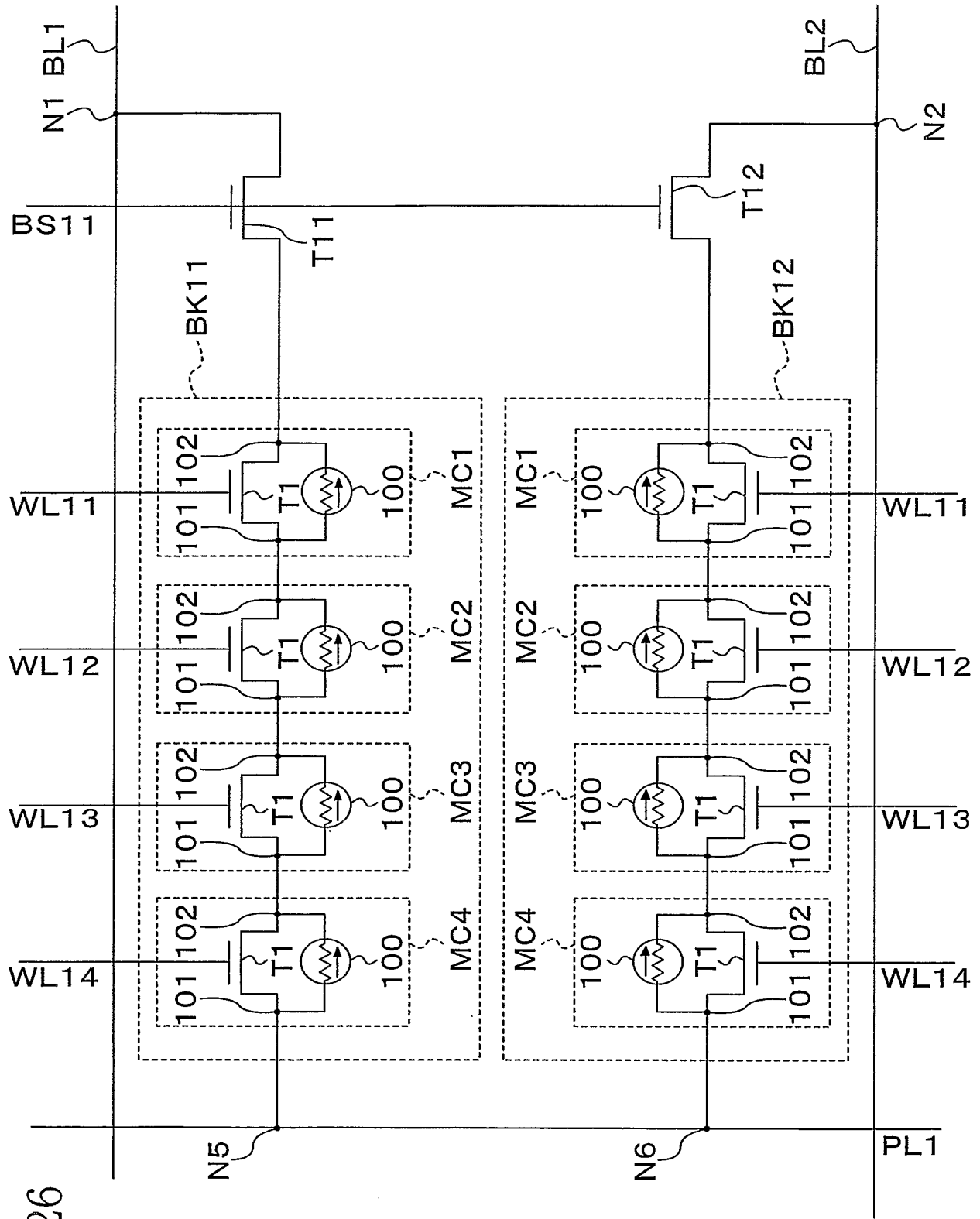


FIG. 26

FIG. 27

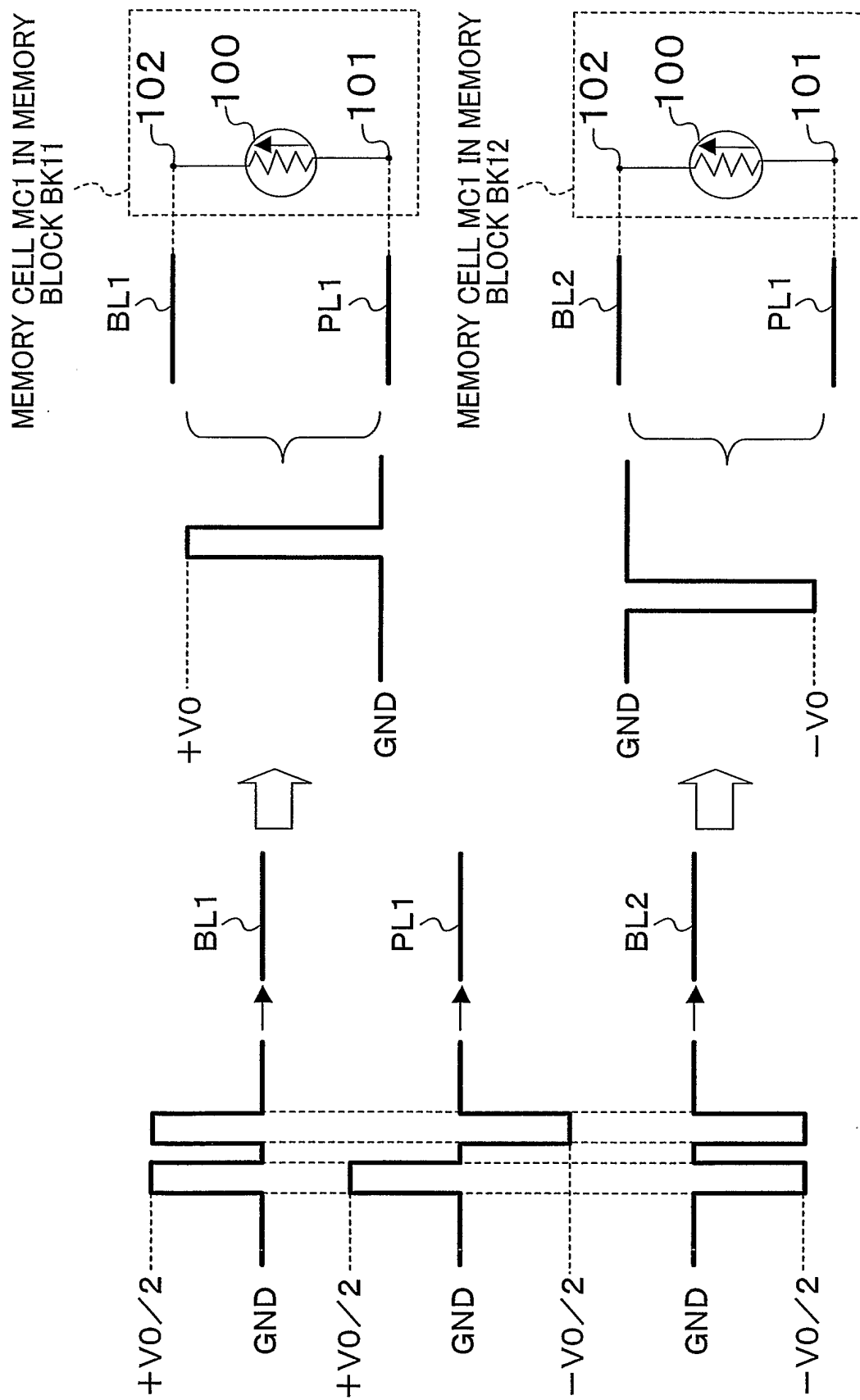
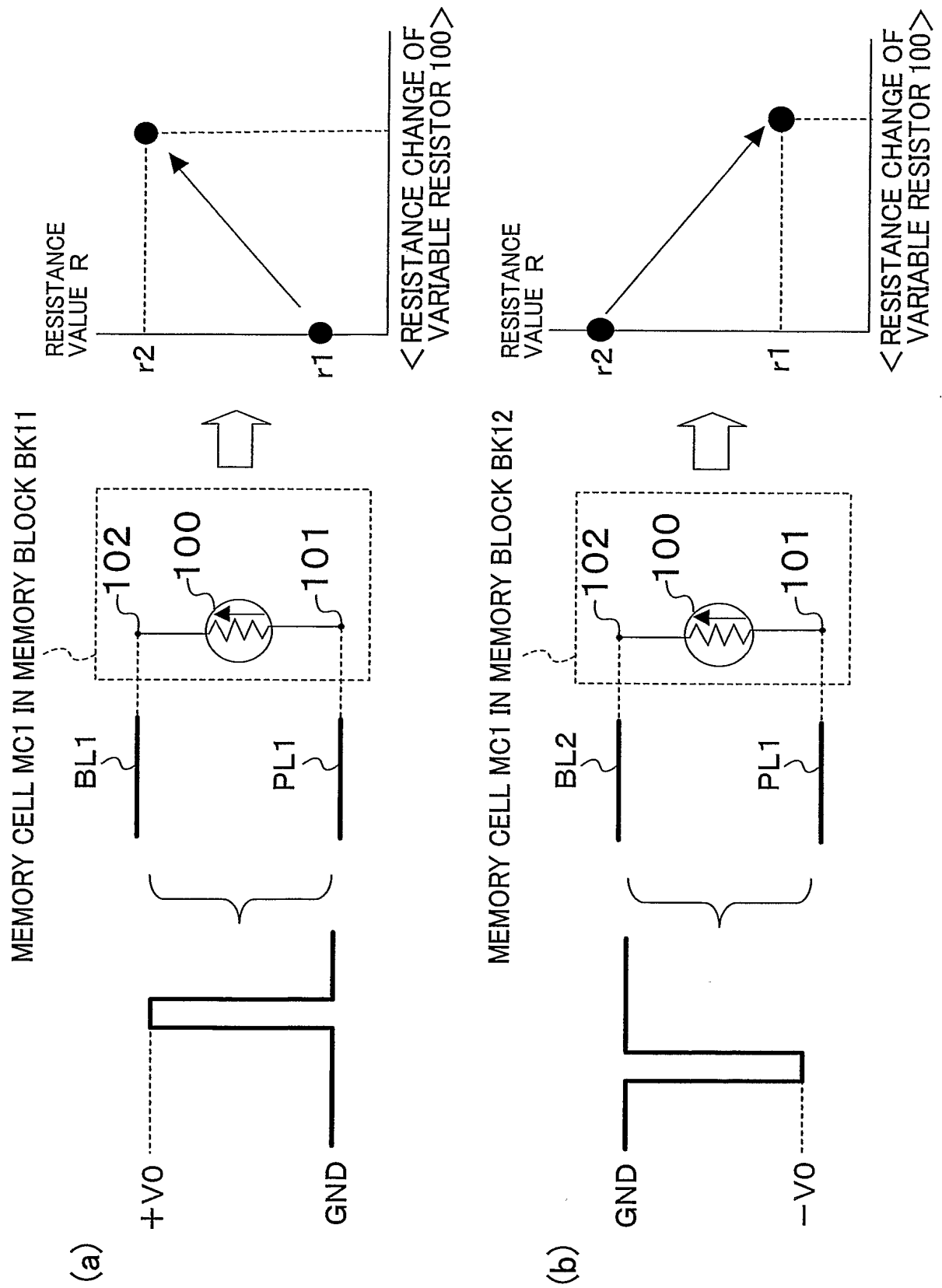
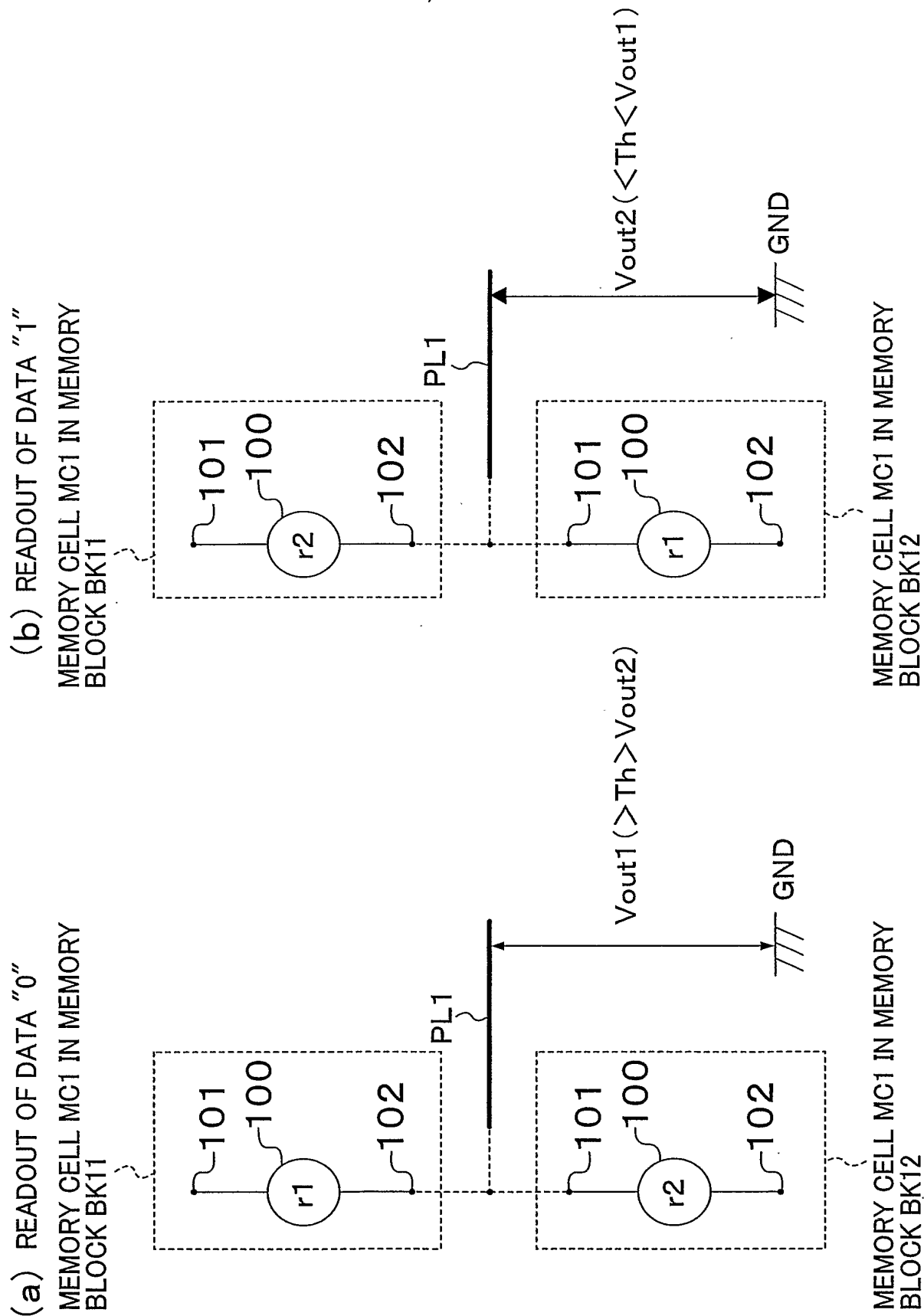


FIG. 28



29/30

FIG. 29



30/30

FIG. 30

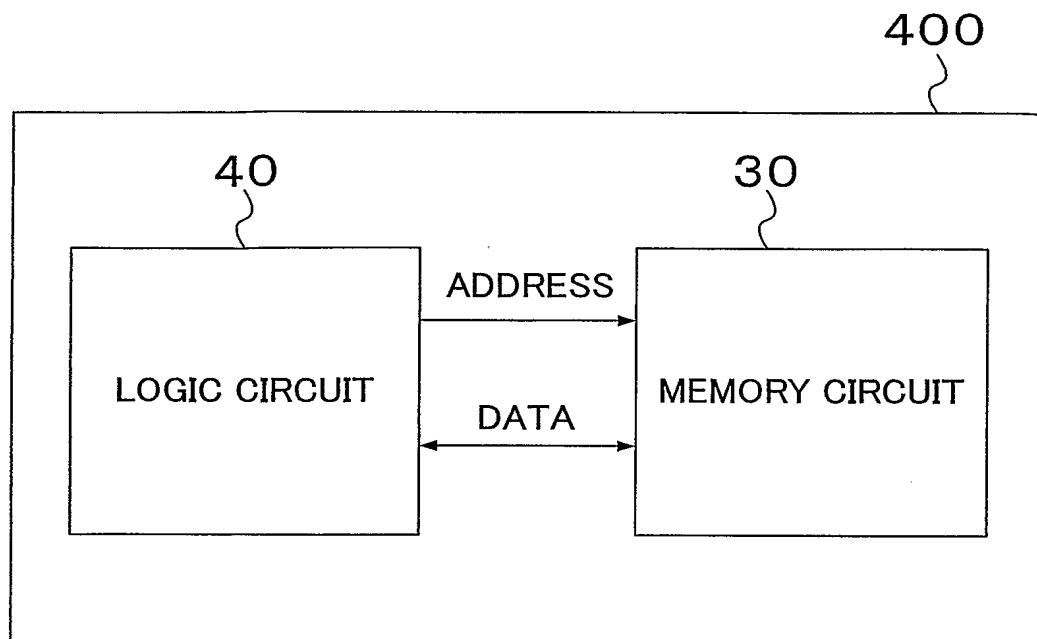


FIG. 31

